



PHILIPS

FW-C85

Mini Hi-Fi System
with 3 CD changer



Toll Free Help Line

Ligne d'assistance en service libre

Línea de ayuda telefónica sin cargo

800-531-0039



PHILIPS

Let's make things better.

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Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

- Once your Philips purchase is registered, you're eligible to receive all the privileges of owning a Philips product.
- So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your Philips warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Know these
safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.



The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.



For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

MAC5097

PHILIPS

***Congratulations on your purchase,
and welcome to the "family!"***

Dear Philips product owner:

Thank you for your confidence in Philips. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Philips "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a Philips product.

Sincerely,



Robert Minkhorst
President and Chief Executive Officer



P.S. Remember, to get the most from your Philips product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!



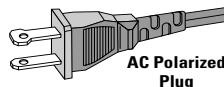
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IMPORTANT SAFETY INSTRUCTIONS – Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1. Read these instructions** – All the safety and operating instructions should be read before the appliance is operated.
- 2. Keep these instructions** – The safety and operating instructions should be retained for future reference.
- 3. Heed all warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow all instructions** – All operating and use instructions should be followed.
- 5. Do not use this apparatus near water** – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- 6. Clean only with a damp cloth.** The appliance should be cleaned only as recommended by the manufacturer.
- 7. Install in accordance with the manufacturers instructions. Do not block any of the ventilation openings.** For example, the appliance should not be situated on a bed, sofa, rug, or similar surface or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 8. Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- 9. Do not defeat the safety purpose** of the polarized or grounding-type plug.



AC Polarized
Plug

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10. Protect the power cord** from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11. Only use attachments/accessories** specified by the manufacturer.

- 12. Use only with a cart**, stand, tripod, bracket, or table specified by the manufacturer; or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13. Unplug this apparatus** during lightning storms or when unused for long periods of time.

- 14. Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure.

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.

Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

CAUTION INVISIBLE LASER RADIATION
WHEN OPEN. DO NOT STARE INTO BEAM.

DANGER INVISIBLE LASER RADIATION WHEN OPEN.
AVOID DIRECT EXPOSURE TO BEAM.

EL 4562-E004: 99/3



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AUDIO SYSTEM

One Year Free Labor

One Year Free Service on Parts

This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For one year thereafter, all parts will be repaired or replaced, and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

LIMITED WARRANTY

- a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts. (In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL #

SERIAL #

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

**Philips Service Solutions Group, P.O. Box 2976,
Longview, Texas 75606, USA, (903) 242-4800**

EL4965E006 / MAC 4110 / 12-98



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pg 01-28/C85/37-Eng

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2/16/00, 9:02 AM

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GENERAL INFORMATION

General Information

- **The typeplate (which contains the serial number) is located at the rear of the system.**
- **Recording is permissible if copyright or other rights of third parties are not infringed.**
- **This device complies with the Federal Communications Commission (FCC) rules, part 15 and with 21 CFR 1040.10. Operation is subject to the following two conditions:**
 - **This device may not cause harmful interference, and**
 - **This device must accept any interference received, including interference that may cause undesired operation.**

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Energy Star



As an ENERGY STAR® Partner, Philips has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Accessories (Supplied)

- Remote control
- Batteries (two AA size) for remote control
- AM loop antenna
- FM wire antenna
- AC power cord

SAFETY INFORMATION

Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The typeplate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system. Allow at least 10cm (4 inches) clearance from the rear and the top of the unit and 5cm (2 inches) from the each side.
- The system incorporates a built-in safety feature that prevents overheating.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the system yourself, as this will invalidate the warranty!

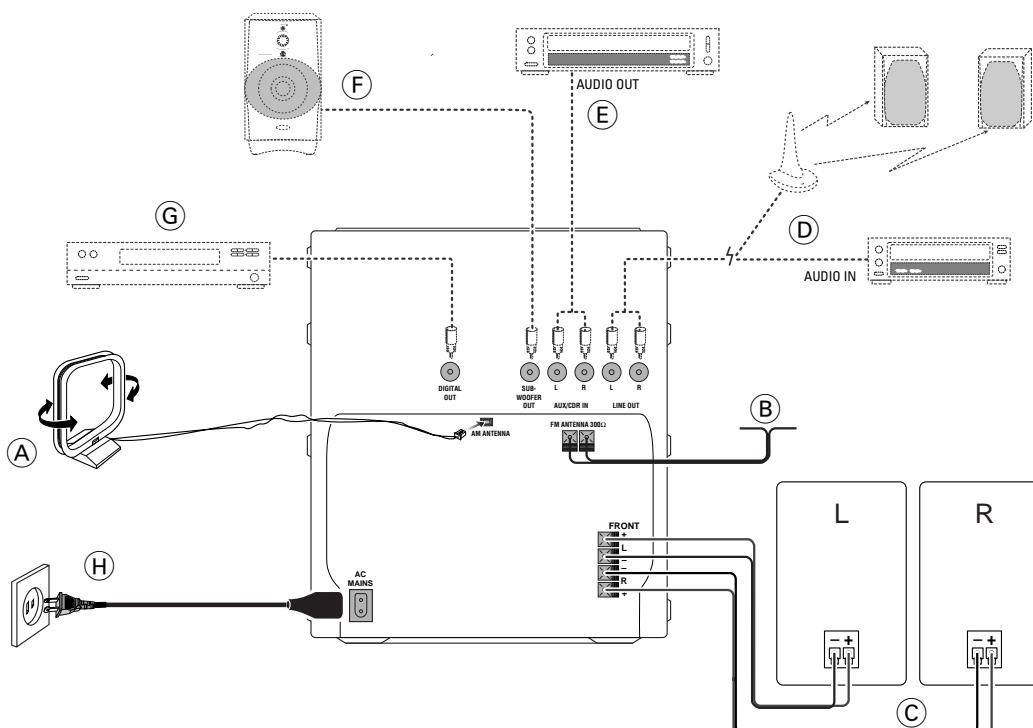
**CLASS 1
LASER PRODUCT**



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PREPARATION

Rear Connections



A AM Loop Antenna Connection

Connect the supplied loop antenna to the AM ANTENNA terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.

⑧ FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM ANTENNA 300 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

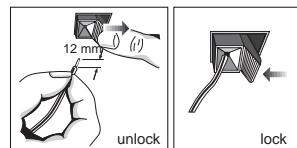
For better FM stereo reception, connect an outdoor FM antenna to the FM ANTENNA 300 Ω terminal using a 300 Ω dipole wire.

© Speakers Connection

- Connect the right speaker to Front terminal R, with the colored wire to + and the black wire to -.
- Connect the left speaker to Front terminal L, with the colored wire to + and the black wire to -.
- Clip the stripped portion of the speaker wire as shown.

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PREPARATION

**CAUTION:**

- For optimal sound performance, it is recommended to use the supplied speakers.
- Do not connect more than one speaker to any one pair of +/– speaker terminal.
- Do not connect speakers with impedance lower than the speakers supplied. Please refer to SPECIFICATION section of this manual.

(D) Line Out Connection

(wireless ready)

You can connect the audio left and right LINE OUT terminals to a optional CD Recorder ANALOG IN terminals. This allows you to record in an analogue format.

You can also install additional optional front active speakers away from the system (e.g. in another room) to reduce the inconvenience of running long speaker wires across rooms. You can place as many remote speakers as you like provided they operate at the same

radio frequency. Connect the wireless radio frequency transmitter to the LINE OUT terminals. Place the active speakers at your preferred location. Be sure to follow the instructions supplied with the active speakers.

Note:

- Availability of wireless transmitter and its peripherals are subjected to the approval of local authorities. Please check with respective local safety or approving authority.

(E) Connecting other equipment to your system

You can connect the audio left and right OUT terminals of a TV/VCR, Laser Disc player, DVD player or CD Recorder to the AUX/CDR IN terminals at the rear of the system.

(F) Subwoofer Out Connection

Connect the optional active subwoofer to the SUBWOOFER OUT terminal. The subwoofer reproduces just the low bass sound effect (e.g. explosions, the rumble of spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer.

(G) Digital Out Connection

You can record the digital sound from the CD, through this output, on any audio equipment with digital input (e.g. CD Recorder, Digital Audio Tape (DAT) deck, Digital to Analog Converter and Digital Signal Processor).

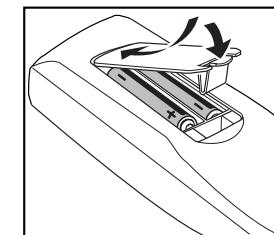
Connect one end of the cinch cable (not supplied) to the DIGITAL OUT socket and the other end to the audio equipment with digital input. When connecting the cinch cable, make sure it is fully inserted.

(H) AC Power Supply

After all other connections have been made, connect the AC power cord to the system and to the wall outlet.

Inserting batteries into the Remote Control

- Insert the batteries (Type R06 or AA) into the remote control as shown in the battery compartment.

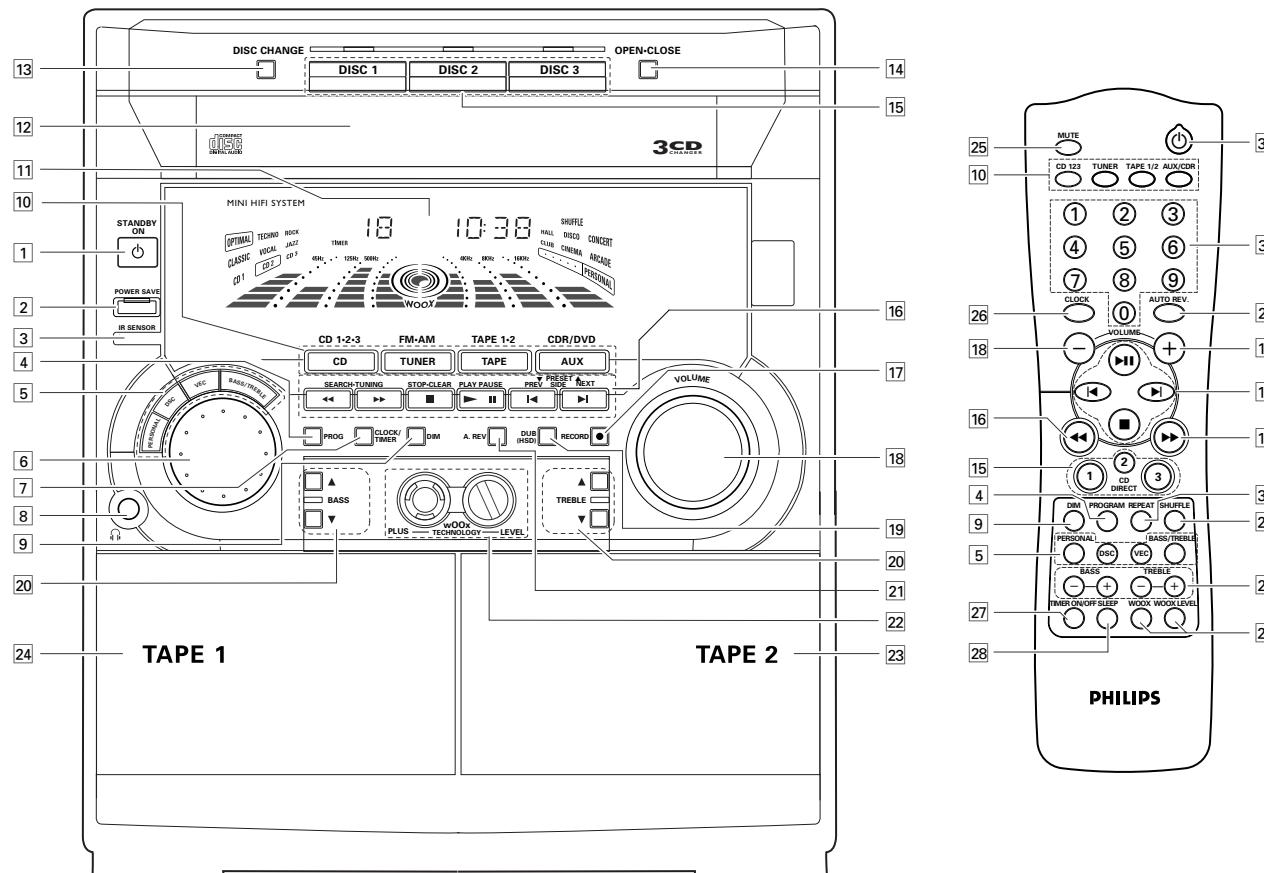


- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement, use type R06 or AA batteries.



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CONTROLS





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CONTROLS

Controls on the system and remote control

1 STANDBY ON

- to switch the system on or to standby mode.
- to use for EASY SET.

2 POWER SAVE

- to switch the system to energy saving mode.

3 IR SENSOR

- sensor for the infrared remote control.

4 PROG (PROGRAM)

- for CD to program CD tracks.
- for TUNER ... to program preset radio stations.
- for CLOCK .. to select 12 or 24 hour in clock setting mode (on the system only).

5 SOUND CONTROL

– to select the desired sound feature : PERSONAL, DSC, VEC or BASS/TREBLE.

6 JOG

- to select the desired sound effect of PERSONAL/DSC/VEC setting. You must select the respective sound feature first.

PERSONAL

- to select up to 6 personal preferred Spectrum Analyzer settings : PERSONAL 1-6.

DIGITAL SOUND CONTROL

- to select the desired Digital Sound Control effect : OPTIMAL, CLASSIC, TECHNO, VOCAL, ROCK or JAZZ.

VEC

- to select the desired Virtual Environment Control effect : HALL, CLUB, DISCO, CINEMA, CONCERT or ARCADE.

7 CLOCK/TIMER

- to view the clock, set the clock or set the timer.

8 HEADPHONE

- to connect headphones.

9 DIM

- to select brightness for the display screen : DIM 1, DIM 2, DIM 3 or DIM OFF.

10 SOURCE – to select the following:

CD / (CD 1•2•3)

- to select CD mode. When CD playback is stopped, press to select disc tray 1, 2 or 3.

TUNER / (FM•AM)

- to select Tuner mode. When in tuner mode, press to select the waveband: FM or AM.

TAPE / (TAPE 1• 2)

- to select Tape mode. When tape playback is stopped, press to select either tape deck 1 or 2.

AUX / (CDR/DVD)

- to select sound from an external source (e.g.TV,VCR, Laser Disc player, DVD player or CD Recorder). When in AUX mode, press to select either AUX or CDR/DVD.

11 DISPLAY SCREEN

- to view the current setting of the system.

12 CD CAROUSEL TRAY

13 DISC CHANGE

- to change CD(s).

14 OPEN•CLOSE

- to open or close the CD carousel tray.

15 DISC 1 / DISC 2 / DISC 3 (CD DIRECT PLAY)

- to select a CD tray for playback.

16 MODE SELECTION SEARCH << >> (TUNING << >>)

- for CD to search backward/forward.

- for TUNER to tune to a lower or higher radio frequency.

- for TAPE to rewind or fast forward a tape.

- for CLOCK .. to set the hour (on the system only).

STOP•CLEAR ■

- for CD to stop CD playback or to clear a program.

- for TUNER ... to stop programming.

- for TAPE to stop playback or recording.

- for DEMO (on the system only) to start or stop demonstration mode.

PLAY PAUSE ▶ II

- for CD to start or interrupt playback.

- for TAPE to start playback.

◀ PREV / SIDE / NEXT ▶

(PRESET ▼ ▲)

- for CD to skip to the beginning of the current, previous, or next track.

- for TUNER ... to select a preset radio station in memory.

- for TAPE to select tape side (back or front) in tape deck 2 only.

- for CLOCK .. to set the minute (on the system only).

17 RECORD

- to start recording on tape deck 2.

18 VOLUME

- to increase or decrease the volume.

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CONTROLS

19 DUB (HSD) (HIGH SPEED DUBBING)

- to dub a tape in normal or fast speed.

20 BASS/TREBLE CONTROL

to adjust BASS/TREBLE level :

BASS ▲ ▼ (BASS +/−)

- to increase or decrease the low tone.

TREBLE ▲ ▼ (TREBLE +/−)

- to increase or decrease the high tone.

21 A. REV (AUTO REVERSE)

- available in tape deck 2 only.
- to select the desired play modes (I / II / III).

22 wOOx PLUS

- to select between normal or enhanced wOOx sound effect.

wOOx LEVEL

- to select desired wOOx level : WOOX 1, WOOX 2 or WOOX 3.

23 TAPE DECK 2

24 TAPE DECK 1

25 MUTE

- to switch off the sound temporarily.

26 CLOCK

- to view clock display.

27 TIMER ON/OFF

- to switch on or off timer.

28 SLEEP

- to switch the system to standby mode at a selected time.

29 SHUFFLE

- to play all the available discs and their tracks in random order.

30 REPEAT

- to repeat a CD track, a disc, or all available discs.

31 DIGIT 0 – 9

(numbers consisting of two figures must be keyed in within 2 seconds.)

for CD to key in a CD track

for playback or
programming

for TUNER ... to key in a preset
radio station.

32

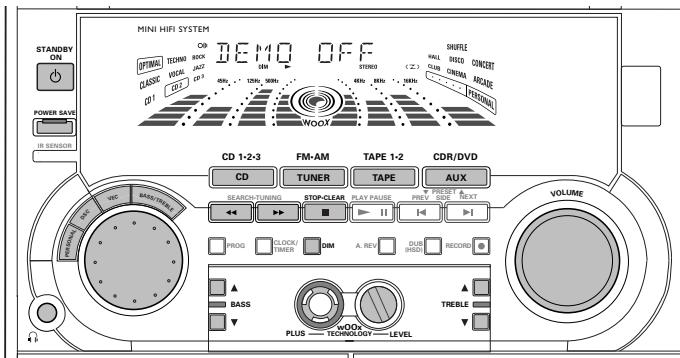
- to switch the system to standby mode.

Notes for remote control:

- **First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. CD, TUNER, etc.).**
- **Then select the desired function (▶, ▶◀, ▶▶, etc.).**



OPERATING THE SYSTEM



Important:
Before you operate the system,
complete the preparation
procedures.

Demonstration mode

The system has a demonstration mode that shows the various features offered by the system. **When the system is switched on for the first time, the demonstration mode will start automatically.**

Notes:

- During the demonstration, if you press any source (or standby-on) button, the system will switch to the respective mode (or standby).
- When the system is switched to standby or power save mode, the demonstration will resume five seconds later.

To stop the demonstration mode

- Press and hold ■ (on the system only) for **five seconds** when the system is in demonstration mode.
→ The demonstration will stop.
→ "DEMO OFF" will be displayed.
→ The system will switch to standby mode.

Notes:

- When the system is switched on from the main power outlet, the CD carousel tray may open and close again to initialize the set.
- Even though the AC power cord is removed from and reconnected to the wall socket, the demonstration will remain off until it is switched on again.

To start the demonstration mode

- Press and hold ■ (on the system only) for **five seconds** when the system is in standby mode.
→ The demonstration will begin.

Easy Set

EASY SET allows you to store all available radio stations automatically.

- Press and hold **STANDBY ON** (on the system only) for **five seconds** when the system is in standby or demonstration mode.
→ "EASY SET" will be displayed, and followed by "TUNER" and then "AUTO".
→ EASY SET will start searching for all radio stations on FM band and then followed by radio stations on AM band.
→ All available radio stations with sufficient signal strength will be stored. Up to 40 presets may be stored.

Notes:

- EASY SET will start with the FM band, if there are still presets available, the system will continue to store the AM band.
- When EASY SET is used, all previously stored radio stations will be replaced.
- The last preset radio station will appear on the display when EASY SET is completed.

Switching the system ON

- Press **CD, TUNER, TAPE** or **AUX**.

You can also switch on the system by pressing any one of the **CD DIRECT PLAY** buttons.

Switching the system to standby mode

- Press **STANDBY ON** or **Ø** on the remote control.
→ The system will switch to standby mode.

Switching the system to power save mode (when Demonstration mode is stopped)

- Press **POWER SAVE** to switch to energy saving mode (< 2 watts).
→ "LOW POWER STANDBY ON" will be displayed, after which the display screen goes blank.
→ The low power STANDBY ON LED will be lit.

Note:

- if the demonstration mode has not been disabled, it will resume five seconds later.

OPERATING THE SYSTEM

Selecting the Source

- Press the respective source selection button: **CD, TUNER, TAPE** or **AUX**.
→ The display indicates the selected source.

Note:

- For an external source, make sure you have connected the audio left and right OUT terminals of the external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder) to the AUX/CDR IN terminals.

Dim mode

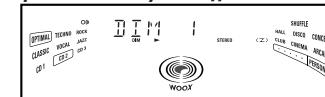
You can select the desired brightness for the display.

- Press **DIM** to select DIM 1, DIM 2, DIM 3 or DIM OFF display mode.
→ The **DIM** appears on the display.
→ "DIM 1", "DIM 2", "DIM 3" or "DIM OFF" will be displayed depending on the mode selected.

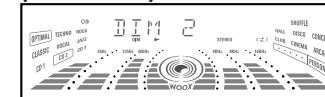
DIM OFF - normal brightness with Spectrum Analyzer On



DIM 1 - normal brightness with Spectrum Analyzer Off



DIM 2 - half brightness with Spectrum Analyzer On



DIM 3 - half brightness with Spectrum Analyzer Off and all LEDs on the system will be switched off.



Volume Control

Adjust **VOLUME** to increase or decrease the sound level.

For Personal Listening
Connect the headphones plug to the socket at the front of the system. The speakers will be muted.

MUTE (on remote control only)

This feature allows you to temporarily switch off the sound without switching off the system when you require a moment of silence.

- Press **MUTE** on the remote control to switch off the sound.
→ "MUTE" will be displayed.
- Press **MUTE** again on the remote control or increase the **VOLUME** level to switch on the sound.

Sound Control

For Optimal sound listening, you can only select one of the following sound control at a time :
PERSONAL, DSC, VEC or BASS/TREBLE.

PERSONAL SOUND

You can store up to 6 personal settings.

- Press to select the **PERSONAL** feature.

- Adjust the **JOG** to select the desired Personal setting.
→ The selected personal setting number will be encircled.

- If no name has been stored previously, "PERSONAL X" will be displayed. "X" is the setting number.

Personal Setting

You can adjust the personal setting to your desired level with the **JOG** control.

- Press and hold **PERSONAL** for about **five seconds** to switch on the personal setting mode.
→ "SELECT PRESET NUMBER" will be displayed.
- Adjust the **JOG** to select the desired preset number for personal setting and press **►►** to confirm the selection.
→ "ADAPT LOW FREQ LEVEL" will be displayed.
- Adjust the **JOG** to select the desired Spectrum Analyzer band level for low frequency.
→ The level will increase or decrease between +3 and -3.
- Press **►►** to confirm the selection.
→ "ADAPT MID FREQ LEVEL" will be displayed and the next followed by "ADAPT HIGH FREQ LEVEL".



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OPERATING THE SYSTEM

- Repeat **step 3 - 4** to select the desired mid and high frequencies Spectrum Analyzer band levels.
- 5 You can choose to edit the name for the personal setting.
 - The first character of setting name will be flashing.
- 6 Adjust the **JOG** to select the desired alphabet, number or symbol.
 - "A to Z", "0 to 9" or "*, -, +, \, /, _".
- 7 Press **▶▶** to confirm the selection.
 - The next character for editing will be flashing.
- Repeat **step 6 - 7** to store up to 10 characters.
- 8 To store the setting, press **PERSONAL** again.
- **Before storing the setting, you can press **◀▶** to retrace the steps in the reverse order.**
- **To exit without storing the setting, press **■**.**

Notes:

- During personal setting, if no button is pressed within 90 seconds, the system will exit personal setting mode automatically.
- wOOx level cannot be stored as part of the personal setting.
- It is not possible to adjust Bass/Treble level during personal setting, "USE JOG" will be displayed.

DIGITAL SOUND CONTROL (DSC)

The DSC feature enables you to adjust the system to suit your type of music.

- 1 Press to select the **DSC** feature.
- 2 Adjust the **JOG** to select the desired Digital Sound Control setting : OPTIMAL, CLASSIC, TECHNO, VOCAL, ROCK or JAZZ.
 - The selected digital sound is encircled.
 - "OPTIMAL, CLASSIC, TECHNO, VOCAL, ROCK or JAZZ" will be displayed.

Note:

- For neutral setting, select CLASSIC.

VIRTUAL ENVIRONMENT CONTROL (VEC)

The VEC feature enables you to adjust the system to select a type of environment.

- 1 Press to select the **VEC** feature.
- 2 Adjust the **JOG** to select the desired Virtual Environment Control setting : HALL, CLUB, DISCO, CINEMA, CONCERT or ARCADE.
 - The selected environment is encircled.
 - "HALL, CLUB, DISCO, CINEMA, CONCERT or ARCADE" will be displayed.

BASS/TREBLE

The BASS/TREBLE features enable you to define the sound processor settings for Bass and Treble.

- 1 Press to select the **BASS/TREBLE** feature.
 - The BASS and TREBLE LED will be lit.
 - "ADJUST BASS AND TREBLE LEVELS" will be displayed.
- 2 Use BASS/TREBLE CONTROL to select the desired BASS or TREBLE level respectively.
 - The BASS/TREBLE level will increase or decrease between level +3 and -3.

- Press **BASS ▲** or **▼** to select the low tone level.
 - "BASS -%" or "BASS +%" will be displayed.
- Press **TREBLE ▲** or **▼** to select the high tone level.
 - "TREBLE -%" or "TREBLE +%" will be displayed.

Note:

- "%" denotes the sound level.

wOOx

There are three wOOx settings to enhance the bass response.

- 1 Press **wOOx PLUS** (or **wOOx** on the remote control) to select between normal or enhanced wOOx effect.

- When normal wOOx sound effect is selected;
 - The **wOOx** display is switched off.
 - "wOOx NORM" will be displayed.

- When enhanced wOOx sound effect is selected;
 - The **wOOx** appears on the display.

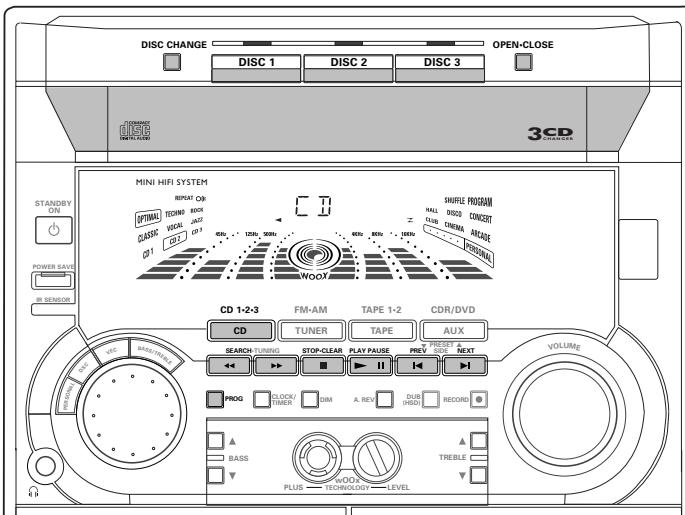
- 2 Adjust **wOOx LEVEL** to select the desired levels of wOOx.
 - The **wOOx** display lights up.
 - "wOOx 1, wOOx 2 or wOOx 3" will be displayed.

Notes:

- When Personal or Bass/Treble sound control is selected, wOOx will be switched off automatically.
- Some CDs or tapes might be recorded in high modulation. It may cause distortion at high volume. If this occurs, switch off wOOx or reduce the volume.

Automatic DSC-wOOx / VEC-wOOx selection

The best wOOx setting is generated automatically for each DSC or VEC selection. You can manually select the wOOx setting that best suits your listening environment.

**Warning!**

- 1) This system is designed for conventional CDs. Do not use any accessories such as disc stabilizer rings or CD treatment sheets, etc., which may damage the CD mechanism.
- 2) Do not load more than one disc into each tray.
- 3) When the CD changer is loaded with CDs, do not turn over or shake the system. This may jam the changer.

You may load three discs in the CD changer for continuous playback without interruption.

Discs for playback

This system can play all digital audio CD, finalized digital audio CD-Recordable and finalized digital audio CD-Rewritable format discs.

**CD Direct Play**

- You can play a CD directly by pressing the **DISC 1**, **DISC 2** or **DISC 3** button. The CD player will stop at the end of playback of the selected disc.
 - A lit button indicates that a disc is loaded in the disc tray.
 - The selected disc is encircled.

Loading the CD Changer

- 1 Press **CD** to select CD mode.
- 2 Press **OPEN-CLOSE**.
 - The CD carousel tray slides out.
- 3 Load a CD with the printed side up in the right tray.
- You can load another disc in the left tray.
- To load the third disc, press the **DISC CHANGE** button.
 - The CD carousel will rotate until the empty tray is ready for loading.
- 4 Press **OPEN-CLOSE** to close the CD carousel tray.
 - The total number of tracks and the playing time of the selected disc appear on the display.

Note:

- To ensure good system performance, wait until the CD changer completely reads the disc(s) before proceeding.

Playing a CD

- 1 Press **PLAY ▶II** to start playback.
 - The disc tray, track number and elapsed playing time of the current track appear on the display.
- To interrupt playback, press **PAUSE ▶II**.
 - The playing time flashes.
- To resume playback, press **PLAY ▶II** again.
- 2 To stop playback, press **■**.

Notes:

- All the available discs will play once, then stop.
- When the CD has stopped playing, the system will switch to standby mode after 30 minutes if no button is pressed.



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Disc Change

You can change the outer two discs while the third inner disc is stopped or is playing.

- 1 Press **DISC CHANGE**.
→ The CD carousel tray slides out.
- 2 Replace the discs in the left and right disc trays.
- If you wish to change the inner disc during playback, press **DISC CHANGE** again.
→ "DISC CHANGE" will be displayed.
→ The CD will stop playing.
→ The CD carousel tray will close to retrieve the inner CD and then open again with the inner CD accessible.
- 3 Press **OPEN•CLOSE** to close the CD carousel tray.

Selecting a desired track

Selecting a desired track when playback is stopped

- 1 Press **◀** or **▶** (or **Digit 0-9** on the remote control) until the desired track appears on the display.
- 2 Press **PLAY ▶II** to start playback.
→ The selected track number and elapsed playing time appear on the display.

Selecting a desired track during playback

- Press **◀** or **▶** (or **Digit 0-9** on the remote control) until the desired track appears on the display.
→ The selected track number and elapsed playing time appear on the display.
- If you press **◀** once it will skip to the beginning of the current track and play the track again.

Note:

- Pressing **◀** during shuffling can only skip to the beginning of the current track.

Searching for a particular passage during playback

- Press and hold **◀◀** or **▶▶** until the desired passage is located.
→ The volume will be reduced.
- Play returns to normal when **◀◀** or **▶▶** is released.

CD

Programming Tracks

Programming tracks of a loaded CD is possible when playback is stopped. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

- 1 Load the desired discs in the disc trays.
- 2 Press **PROG** to start programming.
→ The **PROGRAM** starts flashing.
→ It will cancel any previously selected repeat mode.
- 3 Press the **CD** (CD 1•2•3) or **DISC 1/2/3** button to select the disc.
- 4 Press **◀** or **▶** (or **Digit 0-9** on the remote control) to select the desired track.
- 5 Press **PROG** to store the track.
• Repeat steps 3 to 5 to store other discs and tracks.
- 6 Press **■** once to end programming.
→ The total number of tracks programmed and total playing time appear on the display.

Notes:

- If the total playing time is more than "99:59" or if one of the programmed tracks has a number greater than 30, then "---:---" appears on the display instead of the total playing time.

- If the system is reading the disc, programming is not possible, "READING" will be displayed and followed by "DISC X" "X" is the current read disc number.
- During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.

Reviewing the program

Reviewing of the program is possible only when playback is stopped.

- 1 Press **◀** or **▶** repeatedly to review the programmed tracks.
- 2 Press **■** once to exit review mode.

Playing the program

- 1 Press **PLAY ▶II** to start program playback.
→ "PLAY PROGRAM" will be displayed.
→ The track number and elapsed playing time of the current track will appear on the display.
- If you press **REPEAT** during program playback, the current track or all programmed tracks will be played repeatedly.
→ "TRACK" or "PROGRAM" will be displayed.
→ The **REPEAT** and **PROGRAM** appear on the display.
- 2 Press **■** to stop program playback.



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Notes:

- If you press any of the CD DIRECT PLAY buttons, the system will play the selected disc or track and the stored program will be ignored temporarily. The PROGRAM display also will disappear temporarily from the display. It will reappear when playback of the selected disc ends.
- REPEAT DISC mode is not available when program playback begins.

Erasing the program (when playback is stopped)

- Press ■.
→ "PROGRAM CLEARED" will be displayed.

Note:

- The program will be erased when the system is disconnected from the power supply or when the CD carousel tray is opened.

CD

Shuffle (only on remote control)

In shuffle mode, the system plays all the available discs and their tracks in random order. Shuffle may be used also when tracks are programmed.

To shuffle all the discs and tracks

- 1 Press SHUFFLE.
→ "SHUFFLE" will be displayed.
→ The SHUFFLE, the disc and the track selected at random appear on the display.
 - The discs and the tracks will be played in random order until you press ■.
 - If you press REPEAT during shuffling, the current track or all available discs will be played repeatedly.
→ "TRACK" or "ALL DISC" will be displayed.
→ The REPEAT and SHUFFLE appear on the display.
- 2 Press SHUFFLE again to resume normal playback.
→ The SHUFFLE disappears from the display.

Note:

- REPEAT DISC mode is not available when shuffle is selected.

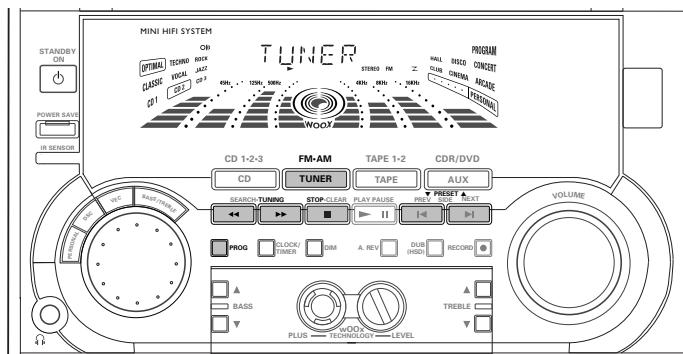
Repeat (only on remote control)

You can play the current track, a disc or all available discs repeatedly.

- 1 Press REPEAT on the remote control to select the various repeat modes.
→ "TRACK", "DISC", "ALL DISC" or "OFF" will be displayed.
→ The REPEAT appears on the display.
 - The selected track, selected disc or all available discs will now be played repeatedly until you press ■.
- 2 Press REPEAT until the "OFF" mode is displayed to resume normal playback.
→ The REPEAT disappears from the display.

Note:

- REPEAT DISC mode is not available during program play or shuffle mode.
- You can also repeat shuffling a program.
→ "TRACK" or "PROGRAM" will be displayed.
→ The REPEAT, PROGRAM and SHUFFLE appear on the display.



Note:

- For 'EASY SET' feature, please refer to page 13.

Tuning to radio stations

- 1 Press **TUNER (FM•AM)** to select TUNER mode.
→ "TUNER" will be displayed.
A few seconds later, the current radio frequency will be displayed.
- 2 Press **TUNER (FM•AM)** again to select the desired waveband : FM or AM.
- 3 Press **◀◀** or **▶▶** for more than one second, then release.
→ The display will show "SEARCH" until a radio station with sufficient signal strength is found.
• Repeat this procedure until the desired radio station is reached.

- To tune to a weak radio station, briefly press **◀◀** or **▶▶** repeatedly until the display shows the desired frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 40 radio stations in the memory. When a preset radio station is selected, the preset number appears next to the frequency on the display.

Automatic programming

- 1 Press **TUNER (FM•AM)**.
- 2 Press **PROG** for more than one second.
→ The **PROGRAM** starts flashing and "AUTO" will be displayed.

- The system will search for every available radio station in the FM waveband first, then search the AM waveband.
- All available radio stations will be stored automatically. The frequency and preset number will be displayed briefly.
- The system will stop searching when all the available radio stations are stored or when the memory for 40 preset radio stations is used.
- The system will remain tuned to the last stored preset radio station.

Notes:

- You can cancel the automatic programming by pressing **PROG** or **■** (on the system only).
- If you want to reserve a section of preset numbers, for example preset numbers 1 to 9, select preset 10 before starting automatic programming, only the preset numbers 10 to 40 will be programmed.

Manual programming

- 1 Press **TUNER (FM•AM)**.
- 2 Press **TUNER (FM•AM)** again to select the desired waveband : FM or AM.
- 3 Press **PROG** for less than one second.
→ The **PROGRAM** starts flashing.
→ The next available preset number will be displayed for selection.

- 4 Press **◀◀** or **▶▶** to tune to the desired frequency.
- If you wish to store the radio station to another preset number, press **▼** or **▲** (or **Digit 0-9** on the remote control) to select the desired preset number.
- 5 Press **PROG** again.
→ The **PROGRAM** disappears and the radio station will be stored.
- Repeat **steps 3 – 5** to store other preset radio stations.

Notes:

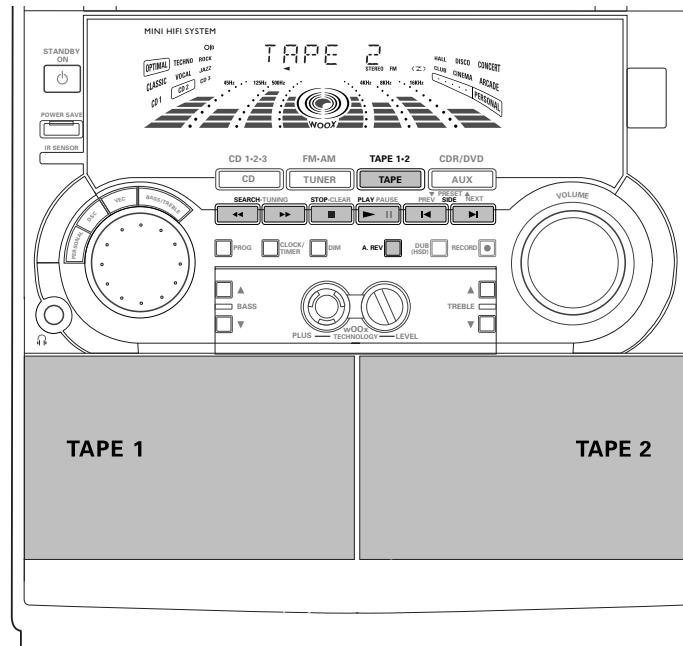
- When 40 radio stations are stored and you attempt to store another radio station, the display will show "PROGRAM FULL". If you want to change an existing preset number, repeat steps 3 – 5.
- You can cancel manual programming by pressing **■** (on the system only).
- During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.

Tuning to Preset Radio Stations

- Press **▼** or **▲** (or **Digit 0-9** on the remote control) to select the desired preset number.
→ The preset number, radio frequency, and waveband appear on the display.



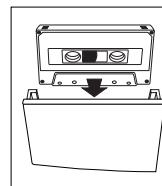
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TAPE

Loading a tape

- 1 Press on the tape deck to open the tape deck door.
- 2 The tape deck door opens.
- 3 Load the tape with the open side downward and the full spool to the left.



- 4 Close the tape deck door.

Tape Side (only on tape deck 2)

- Press **◀** or **▶** to select the tape side for playback or recording.
 - The **◀ (BACK)** or **▶ (FRONT)** appear on the display, depending on the tape side selected.
 - "T₂ << <" or "T₂ >> >" will be displayed.
 - When recording, the **◀** or **▶** display will be flashing.

Auto Reverse Playback (only on tape deck 2)

- Press **A. REV** to select the different playback modes.
 - **▬** to record or playback on one side of the tape. The tape stops at the end of one side.
 - **▬** to record or playback on both sides of the tape. The tape then stops.
 - **▬** to playback continuously on both sides of the tape up to a maximum of 10 times per side unless you press **▬**.

Tape Playback

- 1 Press **TAPE (TAPE 1•2)** to select TAPE mode.
 - "TAPE 1" or "TAPE 2" will be displayed, and followed by "T 1" or "T 2" with "<< <" or ">> >".
- 2 Press **TAPE (TAPE 1•2)** again to select either tape deck 1 or tape deck 2.
- 3 Load the tape into the desired tape deck.
- 4 Press **PLAY ▶ II** to start playback.
 - If tape 1 is selected for playback;
 - "T 1" with ">" scrolling right will be displayed.

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TAPE

- If tape 2 is selected for playback:
→ "T₂" with "K" or "Y" scrolling left or right will be displayed depending on the tape side selected.

3a (for playback on tape deck 2 only)

- Press **◀** or **▶** to select tape side (see Tape Side).
- Press **A. REV** to select the different type of playback mode (see Auto Reverse Playback).

4 Press **■** to end playback.

- "T₁" or "T₂" with "K" or "Y" will be displayed.

Note:

- When the tape has stopped playing, the system will switch to standby mode after 30 minutes if no button is pressed.

Rewind/Fast Forward**When playback is stopped**

- You can rewind or fast forward the tape by pressing **◀** or **▶** respectively.
 - If rewinding, "T₁ <" or "T₂ <" with "K" scrolling left will be displayed.
 - If fast forwarding, "T₁ >" or "T₂ >" with "Y" scrolling right will be displayed.
 - The tape will stop automatically at the end of the rewinding or fast forwarding.
- Press **■** to stop rewinding or fast forwarding.

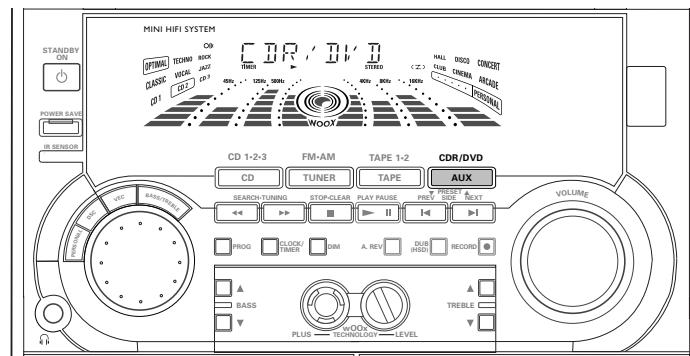
During playback

- Press and hold **◀** or **▶** until the desired passage is located.
 - "T₁ <" or "T₂ <" with "K" or "Y" scrolling left or right will be displayed depending on which button is pressed.
- During searching, the sound is reduced to a low volume.
- When you release **◀** or **▶**, the tape continues playing.

Notes:

- During rewinding or fast forwarding of a tape, it is also possible to select another source (e.g. CD, TUNER, or AUX).
- Before playing a tape, check and tighten slack tape with a pencil. Slack tape may get jammed or may burst in the mechanism.
- C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.
- Store the tapes at room temperature and do not put them too close to a magnetic field (for example, a transformer, TV, or speaker).

AUX/CDR

**Selecting External Equipment**

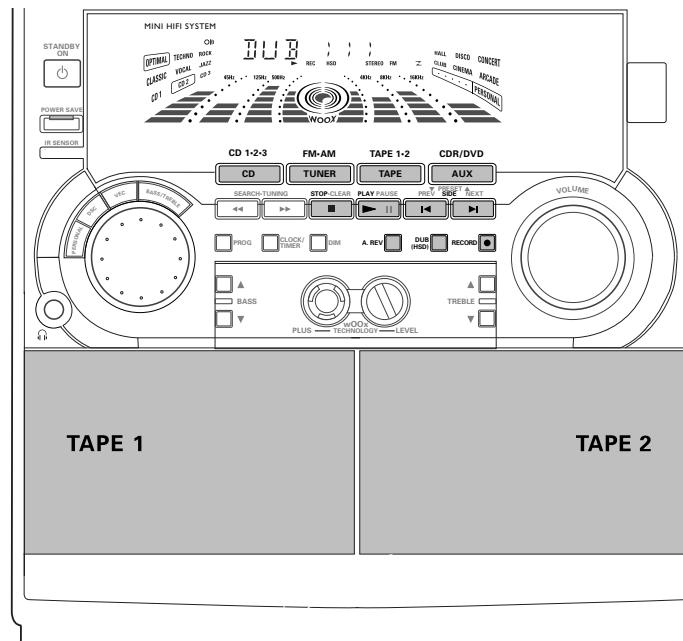
If you have connected the audio out terminals of the external equipment (TV, VCR, Laser Disc player, DVD player, or CD Recorder) to the AUX/CDR IN terminals, you can hear the enhanced sound from the system.

- Press **AUX** (CDR/DVD) to select the CDR/DVD mode.
 - "CDR/DVD" will be displayed.

- Press **AUX** (CDR/DVD) again to select external (normal AUX) mode.
 - "AUX" will be displayed.

Notes:

- There are two Auxiliary modes:
 - the normal AUX mode.
 - the CDR mode, where the LINE OUT of this mini system is muted. You will not be able to record or listen to the sound from the LINE OUT.
- You are advised not to listen to and record from the same source simultaneously.
- All the sound control features (e.g. DSC, wOOx, etc.) are available for selection.



Notes:

- It is not possible to change tape side during recording.
- For recording, use only tape of IEC type I (normal tape) or IEC type II (Cr_2).
- The tape is secured at both ends with leader tape. At the beginning and end of tape, nothing will be recorded for six to seven seconds.
- The recording level is set automatically, regardless of the position of Volume, wOOx, DSC, etc.
- To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.
- If "CHECK TAPE" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening. Do not cover the Cr_2 tape detection hole when covering the tab opening.

Digital Recording via Digital Out

For CD digital recording, please refer to the Instructions Manual of the CD Recorder, digital audio equipment, etc.

Recording from other sources (only on tape deck 2)

- 1 Press **TAPE** (TAPE 1•2) to select tape deck 2.
- 2 Load a blank tape into tape deck 2 with the open side downward.
- 3 Press **◀** or **▶** to select the recording tape side (see *Tape Side* under *TAPE* section).
- 4 Press **CD**, **TUNER** or **AUX**.
- 5 Press **RECORD** to start recording.
 - The **REC** starts flashing.
- 6 Press **■** to stop recording.

Notes:

- Only **■** or **▶** mode is available during recording.
- During recording, it is not possible to listen to another source.

Dubbing tapes (from tape deck 1 to tape deck 2)

- 1 Press **TAPE** (TAPE 1•2) to select tape deck 2.
- 2 Load the prerecorded tape into tape deck 1 with full spool to the left and a blank tape into tape deck 2 with full spool aside.
- 3 Press **◀** or **▶** to select the recording tape side (see *Tape Side* under *TAPE* section).



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RECORDING

- Press **DUB (HSD)** once for normal speed dubbing or twice (within 2 seconds) for high speed dubbing.
→ "NORMAL" (normal speed) or "FAST" (high speed) will be displayed, followed by "DUB" with "< or >" scrolling left or right depending on the tape side selected.
→ The **HSD** appears on the display during high speed dubbing.
- Dubbing will start immediately.
→ The **REC** starts flashing.
- Press **■** to stop dubbing.

Notes:

- Only **T** mode is available during dubbing.
- At the end of side A, flip the tapes to side B and repeat the procedure.
- Dubbing of tapes is only possible from tape deck 1 to tape deck 2.
- To ensure good dubbing, use tapes of the same length.
- During high speed dubbing in **TAPE** mode, the sound is reduced to a low volume.
- You can listen to another source while dubbing.

CD Synchro Start Recording

- Load a blank tape into tape deck 2 and a disc into a disc tray.
- Press **CD** to select CD mode.
- You can program the tracks in the order you want them to be recorded (see Programming Tracks). If not, select the disc by pressing **CD 1•2•3** and the tracks are recorded according to the order on the selected disc.
- Press **RECORD** to start recording.
→ The **REC** starts flashing.
- CD will start playback automatically.
- Press **■** to stop recording.

One Touch Recording

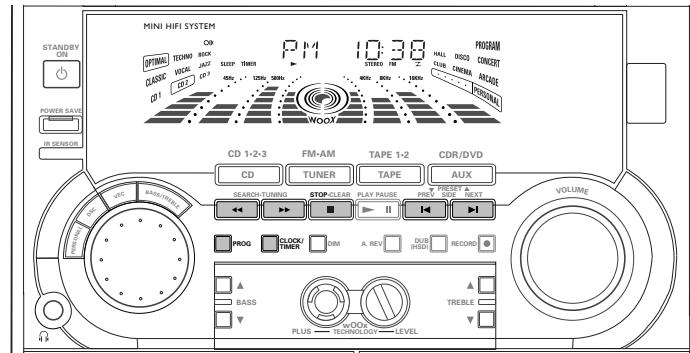
- For One Touch Recording, as soon as you press **RECORD**, the current source (CD, TUNER or AUX) will be recorded on tape deck 2.

- Load a blank tape in tape deck 2.
- Press **RECORD** to start recording.
→ The **REC** starts flashing.
- Press **■** to stop recording.

Note:

- When you press **RECORD** while in **TAPE** mode, "SELECT SOURCE" will be displayed. One Touch Recording is not possible in **TAPE** mode.

CLOCK



View Clock

You can view the clock (if it is set) if the system is in Standby mode or when any sound source is selected (CD, TUNER, etc.). The clock will be displayed for about seven seconds.

- Press **CLOCK/TIMER** briefly (or **CLOCK** on the remote control).
→ "PM 10:38" or "22:38" (the current time) will be displayed depending on whether you have selected 12- or 24-hour mode.
→ "... : --" will be displayed if the clock is not set.

Note:

- When the system goes into low power standby mode, the clock setting will not be displayed.

Clock Setting

The clock can be set in either 12- or 24-hour mode, e.g. "PM 12:00" or "00:00". Before setting the clock, you must be in the View Clock mode.

- Press **CLOCK/TIMER** to select clock mode.
- Press **PROG** (on the system only) to select 12- and 24-hour mode.
→ If 12-hour mode is selected, "PM 12:00" starts flashing.
→ If 24-hour mode is selected, "00:00" starts flashing.
- Set the hour with **◀◀** or **▶▶** on the system.
- Set the minute with **◀** or **▶** on the system.



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TIMER

- 5 Press **CLOCK/TIMER** again to store the setting.
→ The clock starts.
- To exit without storing the setting, press **■** on the system.

Notes:

- During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.
- When a power interruption occurs, the clock setting is erased.

Timer Setting

- The system can switch on to CD, TUNER, or TAPE 2 mode automatically at a preset time. It can serve as an alarm to wake you up.
- Before setting the timer, make sure the clock is set correctly.
- The timer will always be switched on once it is set.
- **The volume of the timer will increase from the minimum level until the volume level before the set is switched to standby mode.**

- 1 Press and hold **CLOCK/TIMER** for more than **two seconds** to select timer mode.
→ "AM 12:00" or "00:00" or the last timer setting starts flashing depending on whether you have selected 12- or 24-hour mode.
- 2 The **TIMER** starts flashing.
→ The selected source is lit while other available sources are flashing.
- 3 Press **◀◀** or **▶▶** on the system to set the hour for the timer to start.
- 4 Press **◀** or **▶** on the system to set the minute for the timer to start.
- 5 Press **CLOCK/TIMER** to store the start time.
→ The timer is now set.
→ The **TIMER** remains on the display.

- At the preset time, the timer will be activated.
- The selected source will be played.

Notes:

- During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.

SLEEP TIMER

Sleep (only on remote control)

This feature allows you to select a length of time after which the system will switch to the standby mode automatically.

- 1 Press **SLEEP** on the remote control repeatedly to select a period of time.
→ The selections are as follows (time in minutes):
60 → 45 → 30 → 15 → OFF → 60 ...
→ "SLEEP XX" or "OFF" will be displayed. "XX" is the time in minutes.

- 2 When you reach the desired length of time, stop pressing the **SLEEP** button.
→ After this amount of time passes, the system will switch to the standby mode.

To switch off the Sleep Timer

- Press **SLEEP** repeatedly until "OFF" is displayed, or press the **STANDBY ON** button.

**Specifications****AMPLIFIER**

Output power	2 x 100 W FTC ⁽¹⁾
Signal-to-noise ratio	≥ 75 dBA (IEC)
Frequency response	40 – 20000 Hz, ± 3 dB
Input sensitivity	
AUX In / CDR/DVD In	500 mV / 1V
Output	
Speakers	≥ 6 Ω
Headphones	32 Ω – 1000 Ω
Subwoofer Out	1.5 V ±2dB, > 22000 Ω
Line Out	500 mV ±2dB, > 22000 Ω
Digital Out	IEC 958, 44.1 kHz (1) (6 Ω, 60 Hz – 12.5 kHz, 10% THD)

CD PLAYER

Number of programmable tracks	40
Frequency response	40 – 20000 Hz
Signal-to-noise ratio	≥ 76 dBA
Channel separation	≥ 79 dB (1 kHz)
Total harmonic distortion	< 0.02% (1 kHz)

TUNER

FM wave range	87.5 – 108 MHz
AM wave range	530 – 1700 kHz
Number of presets	40
Antenna	
FM	300 Ω dipole wire
AM	Loop antenna

TAPE DECK

Frequency response	
CrO ₂ tape (type II)	60 – 15000 Hz (5 dB)
Normal tape (type I)	60 – 15000 Hz (5 dB)
Signal-to-noise ratio	
CrO ₂ tape (type II)	≥ 50 dBA
Normal tape (type I)	≥ 47 dBA
Wow and flutter	≤ 0.4% DIN

SPEAKERS

System	3-way; top firing woox and Bass reflex system
Impedance	6 Ω
Woox	1 x 6.5" top firing woox driver
Woofer	1 x 6.5" full range
Tweeter	1 x 2.5" Ferrofluid
Polydome Tweeter	2 x 1"
Dimensions (w x h x d)	10.24 x 13.58 x 11.42 (inch) 260 x 345 x 290 (mm)
Weight	9.90 pounds each 4.5 kg each

GENERAL INFORMATION

Material/finish	Polystyrene/Metal
AC Power	120V / 60 Hz
Power Consumption	
Active	165 W
Standby	< 20 W
Standby (energy saving mode)	< 2 W
Dimensions (w x h x d)	10.43 x 12.20 x 15.35 (inch) 265 x 310 x 390 (mm)
Weight (without speakers)	20.24 pounds 9.2 kg

Subject to modification



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MAINTENANCE

Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.



Cleaning the CD lens

- After prolonged use, dirt or dust may accumulate at the CD lens. To ensure good playback quality, clean the CD lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads, the capstan(s), and pressure roller(s) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.

Demagnetizing the heads

- Use a demagnetizing tape available at your dealer.

TROUBLESHOOTING

“DISC NOT FINALIZED” is displayed.

- The CD-RW or CD-R disc is not properly recorded for use with a standard CD player.
 - Read the instruction booklet of your CD-Rewritable or CD-Recorder on how to finalize a recording.
- The CD is badly scratched or dirty.
 - Replace or clean CD.

Radio Reception

Poor radio reception.

- The signal is too weak.
 - Adjust the antenna.
 - Connect an external antenna for better reception.
- The TV or VCR is too close to the stereo system.
 - Separate the stereo system from the TV or VCR.



TROUBLESHOOTING

Tape Deck Operation

Recording or playback cannot be made or there is a decrease in audio level.

- Dirty tape heads, capstans or pressure rollers.
→ See section on tape deck maintenance (page 26).
- Magnetic build-up in the record/playback head.
→ Use demagnetizing tape.

Tape deck door cannot open.

- Power failure or AC power plug disconnect from the wall outlet during tape playback.
→ Reconnect the AC power plug and switch on the system again.

General

System does not react when any button is pressed.

- Electrostatic discharge
→ Press STANDBY ON to switch the system off. Remove the AC power plug from the wall outlet, then reconnect the power plug and switch on the system again.

No or poor sound.

- Volume is not turned up.
→ Adjust VOLUME.
- The headphones are connected.
→ Disconnect the headphones.
- Speakers are not connected or are connected wrongly.
→ Check that the speakers are connected correctly.
- Make sure the stripped speaker wire is clamped.

Reversed left and right sound.

- Speakers are connected wrongly.
→ Check the speaker connections and location.

Lack of bass sound or apparently imprecise physical location of musical instruments.

- Speakers are connected wrongly.
→ Check the speaker connection for proper phasing, colored/black wires to colored/black terminals.

Remote control has no effect on the system.

- Wrong source is selected.
→ Select the source (CD, TUNER, etc.) before pressing the function button (▶, ▶◀, ▶◀, etc.).
- The distance to the system is too large.

→ Reduce the distance.

- Batteries are inserted incorrectly.
→ Insert the batteries with their polarities (+/- signs) as indicated.
- Batteries are exhausted.
→ Replace the batteries.

All lighted buttons are not lit.

- Display is switch on in DIM 3 mode.
→ Press DIM until DIM OFF display mode is shown.

Timer is not working.

- Clock is not set.
→ Set the clock.
- Timer is not switched on.
→ Press TIMER ON/OFF to switch on the timer.
- Recording is in progress.
→ Stop recording.

Clock setting is erased.

- There was a power failure.
→ Reset the clock.

System displays features automatically; buttons flash continuously.

- Demonstration mode is switched on.
→ Press and hold ■ (on the system) for five seconds to switch off the demonstration.

There is a howling sound at the external source.

- You hear feedback when you are listening in AUX mode
→ Press AUX to select CDR/DVD mode.

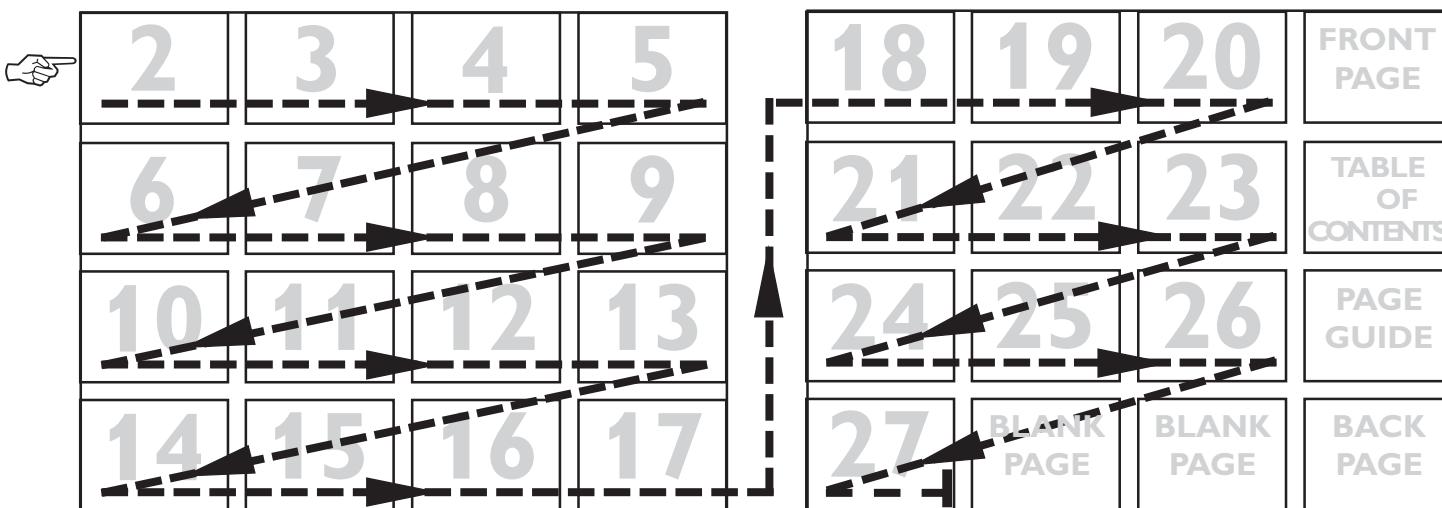


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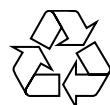
PAGE GUIDE





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